

Permit #: 20006
County: Centry
CONFIDENTIAL UNTIL:

Date Issued: 12-01-74
Date Cancelled: _____
Date Plugged: 01-12-75

COMMENTS:

formation logs only
Stripped 02-21-84

OGC FORMS	Date Received
1	
2	
3	12-01-74
3i	
4	12-23-74
4i	
5	05-24-76
6	05-24-76
7	05-24-76
8	
11	
12	
Misc. Form 2	

	TYPE	ID #	Date Received
Logs			
Samples	chip		
	core		
Analyses	water		
	core		
Additional Submitted Data:			

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL ☒ DEEPEN ☐ PLUG BACK ☐

NAME OF COMPANY OR OPERATOR The Anschutz Corporation DATE 12-19-74
1110 Denver Club Bldg Denver Colo ~~80203~~ 80203
 Address City State

DESCRIPTION OF WELL AND LEASE			
Name of lease <u>J. A. Breckinridge</u>	Well number <u>#1</u>	Elevation (ground) <u>970 est</u>	
WELL LOCATION (give footage from section lines) <u>1930</u> ft. from (S) sec. line <u>810</u> ft. from (E) sec. line			
WELL LOCATION Section <u>12</u> Township <u>61N</u> Range <u>33W</u>		County <u>Gentry</u>	
Nearest distance from proposed location to property or lease line: <u>510</u> feet		Distance from proposed location to nearest drilling, completed or applied for well on the same lease: _____ feet	
Proposed depth: <u>2700'</u>	Rotary or Cased Hole	Approx. date work will start: <u>12-27-74</u>	
Number of acres in lease: <u>120</u>	Number of wells on lease, including this well, completed in or drilling to this reservoir: <u>1</u> Number of abandoned wells on lease: <u>0</u>		
If lease, purchased with one or more wells drilled, from whom purchased: Name _____ Address _____		No. of Wells: producing _____ inactive _____ abandoned _____	
Status of Bond Single Well <input type="checkbox"/> Amt. _____ Blanket Bond <input checked="" type="checkbox"/> Amt. <u>30,000</u>		<input checked="" type="checkbox"/> ON FILE <input type="checkbox"/> ATTACHED	
Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone) use back of form if needed.			
Proposed casing program:		Approved casing - To be filled in by State Geologist	
amt. <u>200</u> <u>to 70</u>	size <u>8 5/8</u> <u>5 1/2"</u>	wt./ft. <u>24 lb</u> <u>15.5 lb</u>	cem. <u>to surf</u> <u>150 Sx</u>
_____	_____	_____	_____
_____	_____	_____	_____
I, the undersigned, state that I am the <u>geologist</u> of the <u>Anschutz Corporation</u> (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.			
Signature <u>Henry Ohlen</u>			

Permit Number: 20006Approval Date: DEC 1974Approved By: Wallace B. Hous

Note: This Permit not transferable to any other person or to any other location.

Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250 Rolla, Mo. 65401

One will be returned.

☒ SAMPLES REQUIRED☐ SAMPLES NOT REQUIRED

WATER SAMPLES REQUIRED @:

any DST's

WELL LOCATION PLAT

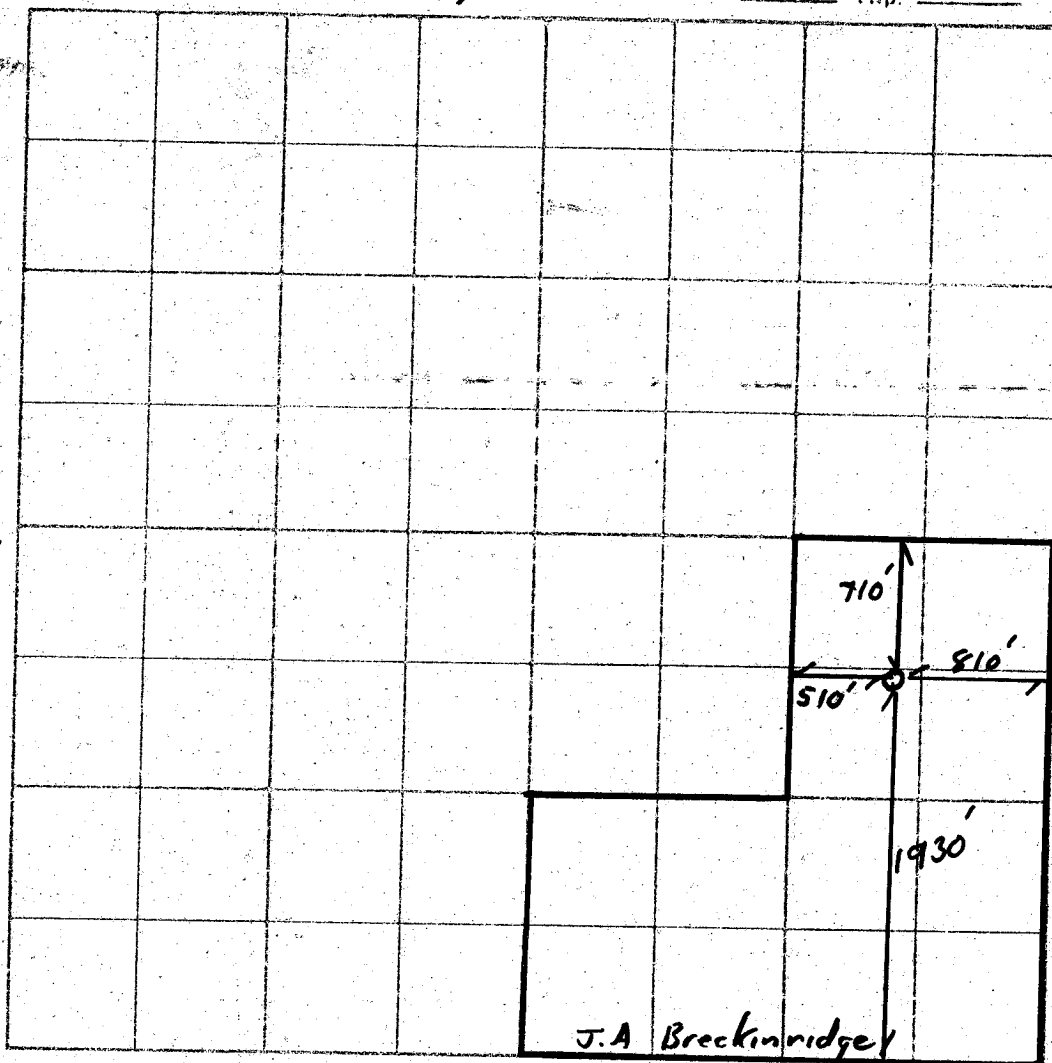
Owner: The Anschutz CorporationLease Name: J.A. BreckinridgeCounty: Gentry

1930

feet from (N) (S) line and

810

feet from (E) (W) line

of Sec. 12Twp. 61NRange 33WSCALE
1" = 1000'

REMARKS:

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest lease and section lines, and from the nearest well on the same lease, completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well. Do not confuse survey lines with lease lines. See rule 7 - 3 (b) for survey requirements.

(REAL)

Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250 Rolla, Mo. 65401
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Registered Land Surveyor

MISSOURI OIL AND GAS COUNCIL

Form OGC-5

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

New Well ☒ Work Over ☐ Deepen ☐ Plug Back ☐ Same Reservoir ☐ Different Reservoir ☐ Oil ☐ Gas ☐ Dry ☒

Owner The Anschutz Corporation		Address 1110 Denver Club Building	
Lease Name J. A. Breckenridge		Well Number 1	Denver, Colorado 80202
Location 1930' FSL & 810' FEL		Sec. -- TWP-Range or Block & Survey Sec. 12, T61N; R33W	
County Gentry	Permit number (OGC3 number) 20006		
Date spudded 1-3-75	Date total depth reached 1011-75	Date completed, ready to produce P & A 1-12-75	Elevation (DF, RKB, RT or Gr.) 983 feet RKB
Total depth 2519'	Elevation of casing hd. flange 976 feet		
Producing interval (s) for this completion none		Rotary tools used (interval) From 0 to 2519' Drilling Fluid used water & gel	
Was this well directionally drilled? no	Was directional survey made? no	Cable tools used (interval) From none to 	
Type of electrical or other logs run (list logs filed with the State Geologist) CNL-FDC-GR, DILL		Date filed 1-75	

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)						
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Am't pulled
Surface	12-1/4"	8-5/8"	24#	212	110	none

TUBING RECORD

LINER RECORD

Size in.	Depth set ft.	Packer set at ft.	Size in.	Top ft.	Bottom ft.	Sacks cement	Screen (ft.)

PERFORATION RECORD			ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD	
Number per ft.	Size & type	Depth Interval	Am't. & kind of material used	Depth Interval

INITIAL PRODUCTION

Date of first production		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)					
Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity API (Corr.)	
Tubing pressure	Casing pressure	Cal'd rate of production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio	
Disposition of gas (state whether vented, used for fuel or sold):							

Method of disposal of mud pit contents:
Backfilled pits & leveled

CERTIFICATE: I, the undersigned, state that I am the **Oper. Engr.** of the **Anschutz Corp.** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Wayne C. Pierre
Signature

RECEIVED
MAR 24 1976
MO. OIL & GAS COUNCIL

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DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Mississippian	1340'		No DST's or Cores
Kinderhook	1652		
Lime Creek	1688		
Hunton	1748		
Viola	2171		
Simpson	2392		
St. Peter	2462		
Arbuckle	2478		
Total Depth	2519		

*Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well if available.

This Well Completion or Recompletion report and well log shall be filed with the Missouri State Geologist not later than 30 days after project completion.

MISSOURI OIL AND GAS COUNCIL

Form OGC-6

NOTICE OF INTENTION TO ABANDON WELL

Name of Lease J. A. Breckenridge Date _____

Well No. 1 is located 1930 feet from (N) (S) line and 810

feet from (E) (W) line of Section 12 Township 61N Range 33W

Gentry County The elevation of the ground at well site is 976

_____ feet above sea level.

Name and address of Contractor or Company which will do work is:

Halliburton Services

P. O. Drawer 1431, Duncan, Oklahoma 73533

DETAILS OF WORK

(Indicate size, kind, and depth of plugs, where casing will be pulled, other pertinent details)

No Casing pulled

Cement plugs set as follows:

35 sx @ 2510 - 2394'

35 sx @ 1394 - 1278'

30 sx @ 247 - 147'

Surface casing capped and marker installed.

CERTIFICATE: I, the undersigned, state that I am the Oper. Engr. of the Anschutz Corp. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Wayne C. Reese
Signature

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MAY 24 1976

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**MISSOURI OIL AND GAS COUNCIL
PLUGGING RECORD**

Form OGR-7

Owner The Anschutz Corporation				Address 1110 Denver Club Building	
Name of Lease J. A. Breckenridge			Well No. 1	Denver, Colorado 80202	
Location of Well 1930' FSL & 810' FEL			Sec. Twp-Rge or Block & Survey Sec. 12, T61N, R33W		County Gentry
Application to drill this well was filed in name of The Anschutz Corp.		Has this well ever produced oil or gas no	Character of well at completion (initial production) Oil (bbls/day) none Gas (MCF/day) none		Dry? yes
Date Abandoned 1-12-75		Total depth 2519'	Amount well producing prior to abandonment Oil (bbls/day) - Gas (MCF/day) -		Water (bbls/day) -
Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of abandonment	Fluid content of each formation		Depth interval of each formation		Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount cement
none					
Cement plugs set as follows:					
	35 sx @ 147' - 247'				
	35 sx @ 1278 - 1394'				
	30 sx @ 2394 - 2510'				
Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, ripped, etc)	Packers and shoes
8-5/8	212	-	212		
Was well filled with mud-laden fluid? yes			Indicate deepest formation containing fresh water N/A		
NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE					
Name	Address			Direction from this well:	
Method of disposal of mud pit contents: Pits were backfilled & leveled					
Use reverse side for additional detail File this form in duplicate with					
<p>CERTIFICATE: I, the undersigned, state that I am the Oper. Engr. of the Anschutz Corp. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.</p> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;"> <p>RECEIVED</p> <p>MAY 24 1976</p> <p>MO. OIL & GAS COUNCIL</p> </div> <div style="text-align: right;"> <p><i>Wayne C. Price</i></p> <p>Signature</p> </div> </div>					

Remit two copies; one will be returned

MUD AND CUTTINGS ANALYSIS

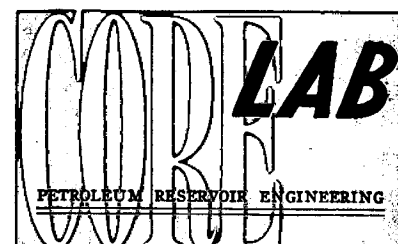
THE ANSCHUTZ CORPORATION-NCRA-DOW CHEMICAL CO.

NO. 1 J. A. BRECKENRIDGE

WILDCAT

GENTRY COUNTY, MISSOURI

RECEIVED
FEB 19 1955
MO. OIL & GAS COUNCIL



SUMMARY OF WELL DATA

I. WELL DATA

Well Name: No. 1 J. A. Breckenridge
Operator: Anschutz Corporation, NCRA, Dow Chemical
Location: NE SE 12-61N-33W Gentry County, Missouri
Lease: J. A. Breckenridge
Elevation: 975.6' GL 984' KB
Geology: Well Site Geology by Charles L. Ard
Casing: 212' 8 5/8" Surface Pipe
Total Depth: Geolograph 2520'
Schlumberger - 2522'
Status: Dry and Abandoned

II. TESTS

No Tests

III. CORES

No Cores

IV. BIT RECORD

<u>Bit No.</u>	<u>Type</u>	<u>Depth Out</u>	<u>Hours</u>
1	12 1/4" Smith L4	213'	16½
2	7 7/8" Smith V2HJ	1283'	32½
3	7 7/8" Hughs J-33	2064'	47½
Rerun 4	7 7/8" Smith F-4	2520'	32¼

V. PLUGGING DATA

<u>Plug No.</u>	<u>Interval</u>	<u>Sacks Cement</u>
1	2380' - 2500'	35 Sacks class A cement
2	1280' - 1400'	35 Sacks class A cement
3	160' - 255'	30 Sacks class A cement
4	Surface	10 Sacks with ½" steel plate

VI. GEOLOGIC SUMMARY

The subject well was drilled in order to test for hydrocarbon accumulations in the Viola and Hunton dolomites, with secondary objectives being sand developments in the Lower Cherokee, and zones of porosity in the Mississippian carbonates.

The Cherokee was entered at 687'. It consisted primarily of interbedded shales, silts, sands, and occasional limestone stringers. Notable sands were encountered from 845' - 885' and 1060' - 1085', but appeared to be wet with no shows or evidence of hydrocarbon accumulation.

The Mississippian limestone was encountered at 1340' and was a tan to light brown, hard, mostly non/XTLN limestone, with siltstone and shale stringers. There was no evidence for hydrocarbon accumulation in the Mississippian.

The Kinderhook shale was encountered at 1650'. There were no shows in the Kinderhook.

The Lime Creek came in at 1687'. It was primarily interbedded dolomitic limes and shaley silts, with no shows of hydrocarbons.

The Hunton was encountered at 1752' and consisted predominantly of light brown to brown dolomites and white to light brown limestones, both with interbedded calcareous shales. Generally porosity was poor with occasionally fair to good porosity in some of the dolomitic facies. No shows were recorded.

The Viola was penetrated at 2170'. It was a white very crystalline dolomite with no visible porosity. The lower Viola was brown to dark brown, less crystalline and "dirtier" or more argillaceous. A very slight cut was noted in the basal member or transitional zone between the dolomites of the Viola and the silty and sandy shales of the Simpson. However no abnormal readings were recorded on the gas detection equipment which indicates a total absence of volatile components.

The Simpson was encountered at 2395' with no shows recorded.

The St. Peter was entered at 2460' with no shows recorded.

The Arbuckle was penetrated at 2480' with no shows recorded.

VII. HOT WIRE ANOMALIES

No shows or abnormal readings were recorded by gas detection equipment.

VIII. FORMATION TOPS

<u>Formation</u>	<u>Log Top</u>		<u>Sample Top</u>	
	<u>Depth</u>	<u>Datum</u>	<u>Depth</u>	<u>Datum</u>
Cherokee	687	+ 297	648	+ 336
Mississippian	1340	- 356	1344	- 360
Kinderhook	1650	- 666	1648	- 664
Lime Creek	1687	- 703	1680	- 696
Hunton	1752	- 768	1748	- 764
Maquoketa	2120	-1136	2150	-1166
Viola	2170	-1186	2180	-1196
Simpson	2395	-1411	2400	-1416
St. Peter	2460	-1476	2465	-1481
Arbuckle	2480	-1496	2490	-1506

IX. SAMPLE DESCRIPTIONS

<u>Interval</u>	<u>Description</u>
240 - 260	<u>SH</u> - gry, grn, sft-frm, silty, calc, pyric
260 - 270	<u>SLTST</u> - gry, frm, v/small ls stringers, chlky, wht-gy, dense, n/xtln
270 - 280	<u>SH</u> - gry, lgrn, sft-frm, slty, calc, pyric
280 - 310	No Sample
310 - 370	<u>LS</u> - wht, tan, lbrn, frm-hd, dns, mostly n/xtln, occ fos, mstly crinoid stems, slty, pyric. Sh stringers throughout
370 - 380	<u>SH</u> - lgn, gry, dgy, frm-sft, slty, calc, pyric
380 - 390	<u>LS</u> - wht, chalky, v/sft-frm, n/fos
390 - 470	Alternating LS and SHALE averaging 8-12' in thickness. LS is wht, tan, lbrn, frm-hd, dns, mstly n/xtln, slty ip, chlky ip, pyric. SH is grn, gry, sft-frm, slty, calc
470 - 510	<u>LS</u> - wht, ltan, hd, dns, mstly n/xtln, n/fos, n/por, slty, cherty
510 - 520	<u>SH</u> - blk, hd, dns, fis, vs/slty, s/calc, pyric
520 - 550	<u>LS</u> - wht, tan, sft, chlky, occ pyric
550 - 560	<u>SLTST</u> - gry, s & p, frm, micac, calc
560 - 600	<u>LS</u> - wht, crm, hd, dns, featureless mudstone, n/fos, tr vfg ss. occ sh stringer
600 - 650	<u>SH</u> - lgn, gy, olive, occ red, frm-sft, slty ip, occ pyrite, mstly calc
650 - 670	<u>SLTST</u> - wht, s & p, frm-hd, calc
670 - 720	<u>SS</u> - wht, crm, f-vfg, mod srted, sub ang, s/calc, occ gdng to sltst, sh stringers.
720 - 780	<u>SLTST</u> - wht, gy, s & p, micac, s/calc, occ gdng to vfg ss
780 - 810	<u>Samples Unreliable</u>
810 - 830	<u>SLTST</u> - a/a
830 - 840	<u>SH</u> - grn, lgy, frm, mottled ip, calc, slty, pyric, occ lse qtz grns
840 - 880	<u>SS</u> - wht, clr, f-cg, mod srted, rnd-sub/ang, p/cons-uncons, coal stringers
880 - 940	<u>SH</u> - gy, grn, frm, fis ip, chunky ip, earthy, slty ip, calc
940 - 960	<u>LS</u> - wht, crm, hd, n/xtln, slty, n/fos, n/por
960 - 980	<u>SH</u> - gry, grn, tan, brn, frm, slty, earthy, pyric
980 - 990	<u>SS</u> - wht, gry, s & p, f-vfg, gdng to sltst
990 - 1000	No Sample
1000 - 1050	Alternating gry, grn, sh, and wht, gry sltst
1050 - 1080	<u>SS</u> - wht, clr, mstly uncons qtz grns, f-cg, traces coal
1080 - 1090	<u>SH</u> - gry, grn, frm, slty, sndy, calc
1090 - 1190	<u>SS</u> - wht, clr, s & p, mstly vfg, "dirty", abun sh, sltst zones, micac
1190 - 1240	<u>SH</u> - gry, lgrn, frm, slty, s/calc, tr coal, pyric
1240 - 1250	<u>SS</u> - wht, clr, f-vfg, fri, calc ip, no por
1250 - 1290	<u>SH</u> - gry, lgn, grn, frm, slty-v/slty, calc
1290 - 1330	<u>SS</u> - wht, gry, f-vfg, slty, "dirty"

- 1330 - 1390 - LS - wht, tan, brn, hd, dns, occ chlky, cherty, dolo ip, abun fos
- 1390 - 1460 - LS - a/a more chert, more dolomitic
- 1460 - 1500 - LS - wht, tan, brn, frm-hd, dns, v/cherty, dolo, foss, occ slty, no/por
- 1500 - 1550 - LS - a/a
- 1550 - 1590 - LS - a/a cherty
- 1590 - 1620 - DOLO - lbrn, brn, granular, hd, argil, no/por
- 1620 - 1640 - LS - wht, tan, brn, frm-hd, dns, cherty, dolo, occ slty, no/por, fos rare
- 1640 - 1670 - SH - gry, lgrn, frm, slty, calc
- 1670 - 1720 - LS - wht, tan, lbrn, frm-hd, mstly dns, p-no/por, occ tr xtln insol anhyd
- 1720 - 1730 - SH - grn, gy, frm, fis ip, slty, much red shale was noted in sample before washing, but was very soluble in water and washed away
- 1730 - 1735 - SH - rep, sft, frm, v/soluble, v/hematite rich, abun 0.2 - 1.0 mm hematite nodules
- 1735 - 1770 - LS - wht, tan, brn, hd, dns, mstly n/xtln, silic, tr chert
- 1770 - 1840 - LS - a/a traces xtln ls, m/xtls, no/por
- 1840 - 1950 - DOLO - wht, brn, lbrn, well developed xtln dolo, rhombs easily vis, no/por, n/show, small stringers sh
- 1950 - 1980 - LS - wht, tan, hd, dns, dolomitic, poor/por
- 1980 - 1990 - LS - a/a gdng to sh
- 1990 - 2030 - SH - brn, gy, dgy, frm-sft, slty, micac, calc
- 2030 - 2050 - LS - wht, tan, brn, hd, dns, dolo
- 2050 - 2180 - DOLO - brn, lbrn, slty, "dirty", sandy streaks, p/por, n/show
- 2180 - 2300 - DOLO - wht, hd, rhombic xtals v/well developed, n/por, n/show
- 2300 - 2400 - DOLO - a/a abun streaks or stringers of shale
- 2400 - 2460 - Alternating beds of shale and dolomite
SH - gry, lbrn, frm, slty-v/slty, DOLO - tan, brn, granular, ip slty, toward bottom black residue present, occ vs/halo cut, no other indications for show
- 2460 - 2485 - SS - wht, clr, gg, mstly unconcs qtz grns many with clear facets, others well to moderately rnded. some consolidation present with calcite cmt
- 2485 - 2520 - DOLO - wht, ltan, f/xtln, chlky or granular ip, vs/slty

AVERAGE DRILL RATE MIN/FT

	10	20	30	40	50	60	70	80	90	100
200	0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	1.5	3.0
300	1.25	1.0	1.0	1.0	0.5	0.5	1.0	1.5	1.0	1.0
400	2.25	2.0	2.0	1.50	2.5	3.0	3.5	3.0	1.5	5.0
500	3.5	2.5	4.5	2.25	.75	.75	.75	.75	1.5	.75
600	.5	1.25	2.5	1.5	1.5	1.5	1.25	1.25	1.0	x
700	x	x	x	1.25	1.5	1.0	1.0	1.0	x	x
800	x	1.75	1.75	1.25	.75	.75	1.0	1.5	1.5	1.5
900	1.5	2.0	1.5	1.5	1.5	1.5	1.5	1.5	2.0	1.75
1000	2.0	2.0	1.75	2.0	2.0	1.75	.75	.3	.3	.75
1100	1.25	1.25	1.25	1.25	1.25	1.25	1.5	1.25	1.25	1.50
1200	1.75	2.25	1.75	1.75	2.5	2.5	1.75	2.0	1.5	1.5
1300	1.5	1.5	1.75	2.25	3.75	4.75	4.0	4.0	3.75	4.25
1400	2.0	2.75	2.5	2.0	2.5	3.0	3.5	3.75	3.75	3.75
1500	2.75	2.75	2.75	2.5	2.5	2.25	2.25	2.75	3.0	2.75
1600	2.5	2.5	3.0	3.25	4.0	2.25	1.5	1.5	3.0	4.75
1700	5.0	5.5	4.5	6.0	4.25	5.25	5.0	4.0	3.5	3.25
1800	2.5	3.75	4.5	4.5	4.0	3.5	3.5	2.5	2.25	3.0
1900	3.0	2.5	2.5	4.0	5.75	3.75	3.0	3.75	4.0	3.5
2000	2.75	5.0	6.25	6.0	3.5	6.0	3.5	3.0	4.0	4.0
2100	x	x	3.0	3.5	3.5	5.0	3.0	3.0	3.0	2.0
2200	2.75	3.5	2.25	2.0	2.25	2.75	2.5	2.5	3.0	4.0
2300	4.0	4.5	4.0	5.5	4.25	4.25	6.5	5.5	4.5	5.75
2400	7.25	5.0	4.75	3.0	3.5	4.0	4.5	4.5	5.0	9.0
2500	5.5	3.5								

x - denotes geolograph inop